



# CLUSTER UNIVERSITY SRINAGAR

## SYLLABUS (FYUP UNDER NEP 2020)

### Offered By Department Of BOTANY

#### Semester 1<sup>st</sup> Skill Enhancement Course (SEC)

### ***Course Title: Medicinal And Aromatic Plants-I***

Course Code: UGBOT22S101

Credits: 4 (Theory: 1, Practical: 3)

Contact Hrs. 105 (Theory: 15, Practical: 90)

Max. Marks 100

Theory External: 15; Min Marks: 06

Theory Internal (Continuous Assessment): 10 Marks, Min Marks: 04

Practical Experimental Basis= 45 Marks, Min. Marks: 18

Practical Internal (Continuous Assessment): 30 Marks, Min. Marks: 12

**Course Objective:** The principal objective of this course is to impart basic knowledge about medicinal and aromatic plants and their significance

**Learning Outcome:** By the end of the semester, a student must be able to differentiate different medicinal and aromatic plants and their economic importance.

### **THEORY**

#### **Unit-1**

Introduction to medicinal and aromatic plants

Cultivation of medicinal and aromatic plants

Factors affecting the cultivation of medicinal and aromatic plants.

Collection/Harvesting, Drying, Packing, Storage of medicinal and aromatic plants.

Utilization of medicinal and aromatic plants.

### **PRACTICALS**

#### **Unit-2**

Nursery bed preparation

Pot filling and soil mixing

Propagation of medicinal and aromatic plants.

Propagation through Sexual and Asexual means:

Seed, Bulbs, Rhizomes, Corms, Stolon's etc.

#### **Unit-3**

Techniques of Herbarium preparation.

Digital repository of medicinal and aromatic plants.

To prepare herbarium and study the botanical features of important medicinal and aromatic plants of Kashmir valley- Mint, Saffron, *Artemisia*, *Datura*, Lavender, *Bergenia*, *Ocimum*, *Viola*, Garlic, *Taraxacum*

#### **Unit-4**

Germplasm collection of medicinal and aromatic plants.

Visit to herbal gardens and other research centers of the UT.

Field trips to habitats rich in medicinal and aromatic plants viz-a-viz field stations of Indian Institute of Integrative Medicine (IIIM) Sanatnagar (Srinagar), Bonera (Pulwama), Yarikah Tangmarg to make students aware about extraction processes in medicinal and aromatic plants.

### **Suggested readings**

1 Trivedi, P.C. 2006. Medicinal plants: Ethnobotanical approach, Agrobios, India

2. Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2<sup>nd</sup> ed. Agrobio, India.

3 Narayan Das Prajapati, S.S. Purohit, Arun K Sharma, Tarun Kumar. A Handbook of Medicinal plants. A Complete Source Book.

4 Glossary of Indian Medicinal Plants. R. N. Chopras, S.L. Nayar and I.C. Chopra, 1956 C.S.I.R., New Delhi